ELSEVIER

Thermochimica Acta 256 (1995) 489

thermochimica acta

Author index

Aasland, S. 33
Abd El-Aal, A. 429
Abd El-Wahab, M.M.M. 271
Abdel-Kader, M.M. 281
Ahmed, M.A. 413
Aldén, M. 151
Ávila, D.M. 391

Basahel, S.N. 339
Benson, G.C. 185
Biddlestone, F. 123
Blenkinsop, M.G. 291
Borisover, M.D. 175
Brito, J.L. 325
Brown, M. 477
Brown, M.E. 291, 309
Bykov, A.F. 443

Chen, Y.-W. 457
Counioux, J.J. 399

de Queiroz, J.C. 249
Dias, F.S. 249
Diefallah, E.-H.M. 339
Duisterwinkel, A.E. 17

El-Bellihi, A.A. 339
El-Kabbany, F. 281
El-Khwass, E. 281
El-Sayed, B.A. 413
El-Shobaky, G.A. 429

Fagal, G.A. 429
Fjellvåg, H. 75
Flynn, J.H. 477
Flynn, R.M. 477

Gabal, M. 339
Gentil, S. 399
Ghozza, A.M. 429
Glöckner, R. 91
Grande, T. 33
Grini, P.G. 9
Grønvold, F. 91
Gusarov, V.V. 467

Halawani, K.H. 359
Hansteen, O.H. 75
Hay, J.N. 123
Hälldahl, L. 137
Hernández, P. 325
Hu, R. 473
Hussein, G.A.M. 347

Iditoiu, C. 419
Igumenov, I.K. 443
Ilija, M. 325
Ishikiriyama, K. 213

Jerez, A. 205
Jin, Z.-L. 185
Johnsson, M. 107
Julsrud, S. 33

Kang, B. 473
Kertman, G.M. 227
Kertman, S.V. 227
Kulikov, O.V. 237

Laureiro, Y. 205
Lencka, M.M. 193
Leskelä, M. 47, 67
Leskelä, T. 55, 67
Leykin, Y. 227
Li, C.P. 457
Llópiz, J. 205
Lu, B.C.-Y. 185
Lu, J. 261
Lu, Y. 261
Lu, Z. 261
Lyakhov, N.Z. 381

Mæhlum, H.S. 9
Mannonen, R. 55
Mehmet-Alkan, A.A. 123
Muccillo, E.N.S. 391

Niinistö, L. 47, 55, 67
Nykänen, E. 47

Olafsen, A. 75
Olofsson, B. 137
Owren, G.A. 9

Peld, M. 55
Piekarski, H. 237
Podsiadło, S. 367, 375
Popescu, C. 419

Riman, R.E. 193
Romero, M.M. 205
Rudina, N.A. 381

Sakai, N. 75
Segal, E. 419
Seim, H. 75
Shabaan, S.M. 413
Shabana, A.A. 413
Simakova, N.A. 381
Sirotkin, V.A. 175
Soininen, P. 47
Solomonov, B.N. 175
Stølen, S. 91

Tenu, R. 399
Tiitta, M. 47
Tilset, B.G. 75
Todoki, M. 213
Tõnsuaadu, K. 55
Tosson, M. 281
Tribelhorn, M.J. 291, 309
Turgambaeva, A.E. 443

van Bokhoven, J.J.G.M. 17

Veiderma, M. 55
Venables, D.S. 309
Vieira, E.F.S. 249

Wang, H. 261
Willcocks, P.H. 1
Wulff, M. 151

Xie, W. 261

Yorish, V.S. 167

Zielenkiewicz, A. 237
Zielenkiewicz, W. 237

ELSEVIER

Thermochimica Acta 256 (1995) 491–497

thermochimica acta

Subject index

Accuracy
Accuracy analysis in flow calorimetry 9
Acetonate
Thermoanalytical study of vanadyl and vanadium acetoacetonates 347
Activated carbon
Water sorption measured by sorption calorimetry 17
Adsorption
Water sorption measured by sorption calorimetry 17
Aluminium
Grain refinement of aluminium studied by use of a thermal analytical technique 107
Apatite
A thermoanalytical study of synthetic carbonate-containing apatites 55
Atomic layer epitaxy
Thermoanalytical studies on volatile complexes containing alkali metals 47

Benzaldazine
Temperature dependence of the phase transitions of benzaldazine and its *o*-, *m*-, and *p*-nitro derivatives 413
Binary system
Combustion of some iron-fuelled binary pyrotechnic systems 291
Combustion of some zinc-fuelled binary pyrotechnic systems 309
Bis(acetylacetonato)copper(II)
Investigation of the thermal decomposition of bis(acetylacetonato)copper(II) vapour by a mass spectrometric method 443
Butene
Thermal analysis studies using oscillation DSC to determine changes in LD ethene/butene copolymer induced by gamma radiation treatment 137

Calcination
Solid–solid interactions in the NiO/Fe_2O_3 system with and without LiO_2 doping 429
Calibration
Aspects of quality assurance within the industrial thermal analysis laboratory 1
Calorimetry
Accuracy analysis in flow calorimetry 9
Water sorption measured by sorption calorimetry 17
Carbon
Water sorption measured by sorption calorimetry 17
Carbonate
A thermoanalytical study of synthetic carbonate-containing apatites 55
Catalyst
Temperature-programmed-reduction studies of nickel oxide/alumina catalysts: effects of the preparation method 457
Caffeine
Thermodynamic investigations of interactions in aqueous solutions of glycine and some small peptides with caffeine and 1,3-dimethyluracil at 298.15 K 237
Chelation
A thermochemical study of complex formation in chelating ion-exchange resins 227
Combustion
Combustion of some zinc-fuelled binary pyrotechnic systems 309
Compaction
Combustion of some zinc-fuelled binary pyrotechnic systems 309
Copolymer
Thermal analysis studies using oscillation DSC to determine changes in LD ethene/butene copolymer induced by gamma radiation treatment 137
Crystallinity
A thermoanalytical study of synthetic carbonate-containing apatites 55
Solid–solid interactions in the NiO/Fe_2O_3 system with and without LiO_2 doping 429

Crystallite
Influence of some variables of the precipitation process on the structural characteristics of fine zirconia powders 391

dDTA
Solid–solid interactions in the NiO/Fe_2O_3 system with and without LiO_2 doping 429

Decane
Excess molar enthalpies of 2,2-dimethyl-3,6-dioxaheptane + *n*-hexane + (*n*-decane or *n*-dodecane) ternary mixtures at 298.15 K 185

Decomposition
Investigation of the thermal decomposition of bis(acetylacetonato)copper(II) vapour by a mass spectrometric method 443
Thermal and reductive decomposition of ammonium thiomolybdates 325
Thermal decomposition kinetics of some new unsaturated polyesters 271
Thermal decomposition of iron(III) oxalate–magnesium oxalate mixtures 339
Thermoanalytical studies on volatile complexes containing alkali metals 47

Dehydration
Thermal dehydration of lithium sulfate monohydrate. The reaction reversibility and the solid product morphology 381

Dendritic growth
Grain refinement of aluminium studied by use of a thermal analytical technique 107

DETA
The thermal properties of polyether sulphone 123

Dielectric constant
Temperature dependence of the phase transitions of benzaldazine and its *o*-, *m*-, and *p*-nitro derivatives 413

Diketonate
Thermoanalytical studies on volatile complexes containing alkali metals 47

Dimethyl sulphoxide
Heat effects and water sorption by human serum albumin on its suspension in water–dimethyl sulphoxide mixtures 175

Dimethyldioxaheptane
Excess molar enthalpies of 2,2-dimethyl-3,6-dioxaheptane + *n*-hexane + (*n*-decane or *n*-dodecane) ternary mixtures at 298.15 K 185

Dimethyluracil
Thermodynamic investigations of interactions in aqueous solutions of glycine and some small peptides with caffeine and 1,3-dimethyluracil at 298.15 K 237

Disproportionation
Nearly stoichiometric iron monoxide formed as a metastable intermediate in a two-stage disproportionation of quenched wüstite. Thermodynamic and kinetic aspects 91

DMTA
The thermal properties of polyether sulphone 123

Dodecane
Excess molar enthalpies of 2,2-dimethyl-3,6-dioxaheptane + *n*-hexane + (*n*-decane or *n*-dodecane) ternary mixtures at 298.15 K 185

Dodecyl sulphate
Phase equilibria in drug–polymer–surfactant systems 151

Doping
Solid–solid interactions in the NiO/Fe_2O_3 system with and without LiO_2 doping 429

DSC
Evaluation of water in silica pores using differential scanning calorimetry 213
Phase equilibria in drug–polymer–surfactant systems 151
Relationship between the heat and the ratio of heat and temperature of the exothermic decomposition reaction of polynitroaromatic compounds 473
The thermal properties of polyether sulphone 123
Thermal analysis studies using oscillation DSC to determine changes in LD ethene/butene copolymer induced by gamma radiation treatment 137

DTA
A differential thermal analysis cell suitable for systems with vapour pressures exceeding ambient 33
A kinetic model for the thermal decomposition of wool 419
A thermoanalytical study of synthetic carbonate-containing apatites 55
Kinetics of the ferroelectrical behaviour of a thin layer of phase III KNO_3 281
The thermal effect of melting in polycrystalline systems 467
Thermal decomposition of iron(III) oxalate–magnesium oxalate mixtures 339
Thermal decomposition kinetics of some new unsaturated polyesters 271

EGA
A thermoanalytical study of synthetic carbonate-containing apatites 55

Enthalpic relaxation
The thermal properties of polyether sulphone 123
Enthalpy
Accuracy analysis in flow calorimetry 9
A thermochemical study of adducts of 2-pyrrolidone with zinc(III), cadmium(II) and mercury(II) halides 249
Error analysis
Water sorption measured by sorption calorimetry 17
Estimation
Estimation of thermochemical properties for ceramic oxides: a focus on $PbZrO_3$ 193
Excess molar enthalpy
Excess molar enthalpies of 2,2-dimethyl-3,6-dioxaheptane + *n*-hexane + (*n*-decane or *n*-dodecane) ternary mixtures at 298.15 K 185

Ferrite
Solid–solid interactions in the NiO/Fe_2O_3 system with and without LiO_2 doping 429
Ferroelectrical behaviour
Kinetics of the ferroelectrical behaviour of a thin layer of phase III KNO_3 281
Flow calorimetry
Accuracy analysis in flow calorimetry 9
Fluoride
A differential thermal analysis cell suitable for systems with vapour pressures exceeding ambient 33
FTIR
Thermoanalytical studies on samarium sulfite sulfate hydrate 67

Gallium nitride
Stages of the synthesis of gallium nitride with the use of urea 367
Gamma irradiation
Thermal analysis studies using oscillation DSC to determine changes in LD ethene/butene copolymer induced by gamma radiation treatment 137
Glass transition
A differential thermal analysis cell suitable for systems with vapour pressures exceeding ambient 33
The thermal properties of polyether sulphone 123
Glycine
The enthalpic interaction parameters of glycine with sodium halides in water at 298.15 K 261
Grain refinement
Grain refinement of aluminium studied by use of a thermal analytical technique 107
Griseofulvin
Phase equilibria in drug–polymer–surfactant systems 151
Group I compound
Thermoanalytical studies on volatile complexes containing alkali metals 47
Group contribution
Estimation of thermochemical properties for ceramic oxides: a focus on $PbZrO_3$ 193

Halide
A thermochemical study of adducts of 2-pyrrolidone with zinc(III), cadmium(II) and mercury(II) halides 249
The enthalpic interaction parameters of glycine with sodium halides in water at 298.15 K 261
Heat of decomposition
Relationship between the heat and the ratio of heat and temperature of the exothermic decomposition reaction of polynitroaromatic compounds 473
Heat of dilution
Thermodynamic investigations of interactions in aqueous solutions of glycine and some small peptides with caffeine and 1,3-dimethyluracil at 298.15 K 237
Heat of solution
The enthalpic interaction parameters of glycine with sodium halides in water at 298.15 K 261
Heat of transformation
Kinetics of the ferroelectrical behaviour of a thin layer of phase III KNO_3 281
Hexane
Excess molar enthalpies of 2,2-dimethyl-3,6-dioxaheptane + *n*-hexane + (*n*-decane or *n*-dodecane) ternary mixtures at 298.15 K 185
Human serum albumin
Heat effects and water sorption by human serum albumin on its suspension in water–dimethyl sulphoxide mixtures 175

Indium nitride
Stages of the synthesis of indium nitride with the use of urea 375
Ion-exchange resin
A thermochemical study of complex formation in chelating ion-exchange resins 227
Iron monoxide
Nearly stoichiometric iron monoxide formed as a metastable intermediate in a two-stage disproportionation of quenched wüstite. Thermodynamic and kinetic aspects 91

Iron oxalate
Thermal decomposition of iron(III) oxalate–magnesium oxalate mixtures 339
Iron powder
Combustion of some iron-fuelled binary pyrotechnic systems 291

Kinetics
A kinetic model for the thermal decomposition of wool 419
Generalization of the Kissinger equation for several kinetic models 205
Investigation of the thermal decomposition of bis(acetylacetonato)copper(II) vapour by a mass spectrometric method 443
Nearly stoichiometric iron monoxide formed as a metastable intermediate in a two-stage disproportionation of quenched wüstite. Thermodynamic and kinetic aspects 91
Kissinger method
Generalization of the Kissinger equation for several kinetic models 205

Lanthanon compound
Thermoanalytical studies on volatile complexes containing alkali metals 47
Lanthanum compound
Thermal analysis as an aid in the synthesis of non-stoichiometric perovskite type oxides 75
Lead zirconate
Estimation of thermochemical properties for ceramic oxides: a focus on $PbZrO_3$ 193
Lithium sulphate
Thermal dehydration of lithium sulfate monohydrate. The reaction reversibility and the solid product morphology 381

Magnesium oxalate
Thermal decomposition of iron(III) oxalate–magnesium oxalate mixtures 339
MDSC
Thermal analysis studies using oscillation DSC to determine changes in LD ethene/butene copolymer induced by gamma radiation treatment 137
Mechanism
Combustion of some zinc-fuelled binary pyrotechnic systems 309
Generalization of the Kissinger equation for several kinetic models 205
Melting
The thermal effect of melting in polycrystalline systems 467
Microcalorimetry
A thermochemical study of complex formation in chelating ion-exchange resins 227
Mixed oxide
Combustion of some zinc-fuelled binary pyrotechnic systems 309
Solid–solid interactions in the NiO/Fe_2O_3 system with and without LiO_2 doping 429
Thermal analysis as an aid in the synthesis of non-stoichiometric perovskite type oxides 75
Model
A kinetic model for the thermal decomposition of wool 419
The thermal effect of melting in polycrystalline systems 467
MS
Investigation of the thermal decomposition of bis(acetylacetonato)copper(II) vapour by a mass spectrometric method 443

Nickel/alumina
Temperature-programmed-reduction studies of nickel oxide/alumina catalysts: effects of the preparation method 457
Nickel oxide
Temperature-programmed-reduction studies of nickel oxide/alumina catalysts: effects of the preparation method 457
Nitro derivative
Temperature dependence of the phase transitions of benzaldazine and its *o*-, *m*-, and *p*-nitro derivatives 413
Non-freezable water
Evaluation of water in silica pores using differential scanning calorimetry 213
Non-isothermal
Generalization of the Kissinger equation for several kinetic models 205
Thermal decomposition kinetics of some new unsaturated polyesters 271
Non-stoichiometric
Thermal analysis as an aid in the synthesis of non-stoichiometric perovskite type oxides 75
Novel
Accuracy analysis in flow calorimetry 9

ODSC
Phase equilibria in drug–polymer–surfactant systems 151
Thermal analysis studies using oscillation DSC to determine changes in LD ethene/butene copolymer induced by gamma radiation treatment 137
OSC
The thermal effect of melting in polycrystalline systems 467
Oxalate
Thermal decomposition of iron(III) oxalate–magnesium oxalate mixtures 339

Oxidation
A kinetic model for the thermal decomposition of wool 419

Partial molar volume
Thermodynamic investigations of interactions in aqueous solutions of glycine and some small peptides with caffeine and 1,3-dimethyluracil at 298.15 K 237
Partition function
On the translational internal energy of a particle in a small box 167
PEG
Phase equilibria in drug–polymer–surfactant systems 151
Peptide
Thermodynamic investigations of interactions in aqueous solutions of glycine and some small peptides with caffeine and 1,3-dimethyluracil at 298.15 K 237
Perovskite
Estimation of thermochemical properties for ceramic oxides: a focus on $PbZrO_3$ 193
Perovskite
Thermal analysis as an aid in the synthesis of non-stoichiometric perovskite type oxides 75
pH
Influence of some variables of the precipitation process on the structural characteristics of fine zirconia powders 391
Phase diagram
A differential thermal analysis cell suitable for systems with vapour pressures exceeding ambient 33
Phase equilibrium
Phase equilibria in drug–polymer–surfactant systems 151
Phase transition
Temperature dependence of the phase transitions of benzaldazine and its *o*-, *m*-, and *p*-nitro derivatives 413
Polycrystalline system
The thermal effect of melting in polycrystalline systems 467
Polyester
Thermal decomposition kinetics of some new unsaturated polyesters 271
Polyethersulphone
The thermal properties of polyether sulphone 123
Polymer
Thermal analysis studies using oscillation DSC to determine changes in LD ethene/butene copolymer induced by gamma radiation treatment 137
Thermal decomposition kinetics of some new unsaturated polyesters 271
Pore volume
Evaluation of water in silica pores using differential scanning calorimetry 213
Pore water
Evaluation of water in silica pores using differential scanning calorimetry 213
Potassium nitrate
Kinetics of the ferroelectrical behaviour of a thin layer of phase III KNO_3 281
Protein
The enthalpic interaction parameters of glycine with sodium halides in water at 298.15 K 261
Pyrolysis
A kinetic model for the thermal decomposition of wool 419
Investigation of the thermal decomposition of bis(acetylacetonato)copper(II) vapour by a mass spectrometric method 443
Pyrotechnic
Combustion of some iron-fuelled binary pyrotechnic systems 291
Combustion of some zinc-fuelled binary pyrotechnic systems 309
Pyrrolidone
A thermochemical study of adducts of 2-pyrrolidone with zinc(III), cadmium(II) and mercury(II) halides 249

Quality assurance
Aspects of quality assurance within the industrial thermal analysis laboratory 1
Quality control
Aspects of quality assurance within the industrial thermal analysis laboratory 1

Reducibility
Thermal and reductive decomposition of ammonium thiomolybdates 325
Reductive decomposition
Thermal and reductive decomposition of ammonium thiomolybdates 325
Reversibility
Thermal dehydration of lithium sulfate monohydrate. The reaction reversibility and the solid product morphology 381

Salt
The enthalpic interaction parameters of glycine with sodium halides in water at 298.15 K 261
Samarium sulphite
Thermoanalytical studies on samarium sulfite sulfate hydrate 67

Silica gel
Evaluation of water in silica pores using differential scanning calorimetry 213
Solid solution
Phase equilibria in drug–polymer–surfactant systems 151
Solute effect
Grain refinement of aluminium studied by use of a thermal analytical technique 107
Sorption
Heat effects and water sorption by human serum albumin on its suspension in water–dimethyl sulphoxide mixtures 175
SSE
Solid–solid interactions in the NiO/Fe_2O_3 system with and without LiO_2 doping 429
Stability
The enthalpic interaction parameters of glycine with sodium halides in water at 298.15 K 261
Standardization
Aspects of quality assurance within the industrial thermal analysis laboratory 1
Standard-state
Estimation of thermochemical properties for ceramic oxides: a focus on $PbZrO_3$ 193
Stoichiometry
Nearly stoichiometric iron monoxide formed as a metastable intermediate in a two-stage disproportionation of quenched wüstite. Thermodynamic and kinetic aspects 91
Sulphate hydrate
Thermoanalytical studies on samarium sulfite sulfate hydrate 67
Synthesis
Stages of the synthesis of gallium nitride with the use of urea 367
Stages of the synthesis of indium nitride with the use of urea 375

TA
Aspects of quality assurance within the industrial thermal analysis laboratory 1
Grain refinement of aluminium studied by use of a thermal analytical technique 107
Thermoanalytical study of vanadyl and vanadium acetoacetonates 347
Ternary system
Excess molar enthalpies of 2,2-dimethyl-3,6-dioxaheptane + *n*-hexane + (*n*-decane or *n*-dodecane) ternary mixtures at 298.15 K 185
Phase equilibria in drug–polymer–surfactant systems 151
TG
A thermoanalytical study of synthetic carbonate-containing apatites 55
Thermal analysis as an aid in the synthesis of non-stoichiometric perovskite type oxides 75
Thermal decomposition of iron(III) oxalate–magnesium oxalate mixtures 339
TGA
A kinetic model for the thermal decomposition of wool 419
Influence of some variables of the precipitation process on the structural characteristics of fine zirconia powders 391
Thermal and reductive decomposition of ammonium thiomolybdates 325
Thermal decomposition kinetics of some new unsaturated polyesters 271
TG–DTA
Thermoanalytical studies on samarium sulfite sulfate hydrate 67
Thermodynamics
Heat effects and water sorption by human serum albumin on its suspension in water–dimethyl sulphoxide mixtures 175
Thermodynamics
Nearly stoichiometric iron monoxide formed as a metastable intermediate in a two-stage disproportionation of quenched wüstite. Thermodynamic and kinetic aspects 91
Thermodynamics
On the translational internal energy of a particle in a small box 167
Thin layer
Kinetics of the ferroelectrical behaviour of a thin layer of phase III KNO_3 281
Thiomolybdate
Thermal and reductive decomposition of ammonium thiomolybdates 325
TMA
Aspects of quality assurance within the industrial thermal analysis laboratory 1
TPR
Temperature-programmed-reduction studies of nickel oxide/alumina catalysts: effects of the preparation method 457
Thermal and reductive decomposition of ammonium thiomolybdates 325
Transition metal ion
A thermochemical study of complex formation in chelating ion-exchange resins 227

Vanadium acetoacetonate
Thermoanalytical study of vanadyl and vanadium acetoacetonates 347

Vanadyl
Thermoanalytical study of vanadyl and vanadium acetoacetonates 347

Washing
Influence of some variables of the precipitation process on the structural characteristics of fine zirconia powders 391
Water
Heat effects and water sorption by human serum albumin on its suspension in water–dimethyl sulphoxide mixtures 175
Water sorption measured by sorption calorimetry 17
Wool
A kinetic model for the thermal decomposition of wool 419
Wüstite
Nearly stoichiometric iron monoxide formed as a metastable intermediate in a two-stage disproportionation of quenched wüstite. Thermodynamic and kinetic aspects 91

XRD
Thermal decomposition of iron(III) oxalate–magnesium oxalate mixtures 339
XRPD
Influence of some variables of the precipitation process on the structural characteristics of fine zirconia powders 391

Zinc
Combustion of some zinc-fuelled binary pyrotechnic systems 309
Zirconia
Influence of some variables of the precipitation process on the structural characteristics of fine zirconia powders 391